



Indiana Department of Education STEM Certification Evaluation Rubric

NOTE: Essential Elements are identified in gray

NOTE: As you move to the right on the rubric for each element, from Developing to Approaching and from Approaching to Innovating, it is understood that the criteria in the category to the left have been met.

			Domain 1: Culture				
Element	Investigating	Developing	Approaching	Innovating	Element Score	(Examples listed below. You may choose your own evidence to support	References
	0 points	1 point	2 points	3 points			
1.1 Decision-Making	Does not yet meet minimum indicators for Developing	Decision-making regarding planning and implementing the school's STEM plan is the work of a school team, comprised of administrators, teachers and community partners, and includes input from at least 25 percent of the certified staff	Decision-making regarding planning and implementing the school's STEM plan is the work of a school team, comprised of administrators, teachers and community partners, and includes input from at least 50 percent of the certified staff	Decision-making regarding planning and implementing the school's STEM plan is the work of a school team, comprised of administrators, teachers and community partners, and includes input from at least 75 percent of the certified staff		Meeting schedule Meeting minutes Meeting agenda(s) Roster of team members Survey results School wide STEM plan	8, 9, 10, 21, 22
2 School Schedules	Does not yet meet minimum indicators for Developing	On at least a monthly basis, the school schedule allows for dedicated time to implement integrated STEM instruction	On at least a weekly basis, the school schedule allows for dedicated time to implement integrated STEM instruction	The school schedule is designed to allow for seamless implementation of integrated STEM instruction		School master schedule Summary of how school provides dedicated time for integrated STEM instruction	4, 14,15, 18
3 Common Work Time	Does not yet meet minimum indicators for Developing	Common work time is provided, on a monthly basis, where teachers plan integrated STEM learning opportunities as an interdisciplinary team	Common work time is provided, on a bi- weekly basis, where teachers plan integrated STEM learning opportunities as an interdisciplinary team	Common work time is provided, on a weekly basis, where teachers plan integrated STEM learning opportunities as an interdisciplinary team		Meeting schedule Roster of participants Meeting minutes	4, 6, 8, 9, 10, 14, 15, 18, 22
1.4 Classroom Layout	Does not yet meet minimum indicators for Developing	At least 25 percent of teachers have the autonomy to arrange their instructional space, as needed	At least 50 percent of teachers have the autonomy to arrange their instructional space, as needed	At least 75 percent of teachers have the autonomy to arrange their instructional space, as needed		Pictures of classrooms Site visit	1, 3
L.5 Sustainability Plan	Does not yet meet minimum indicators for Developing	There is a two-year STEM certification sustainability plan in place including technology and STEM curriculum	There is a three-year STEM certification sustainability plan in place including technology and STEM curriculum	There is a five-year STEM certification sustainability plan in place including technology and STEM curriculum		Technology plan Curriculum funding plan	8, 9, 10, 14, 22, 23
I.6 Measurement of Students' Attitudes/Interests	Does not yet meet minimum indicators for Developing	Informal methods are used to measure students' attitudes toward STEM and/or interest in STEM classes/career pathways	Formal measurement of students' attitudes toward STEM and/or interest in STEM classes/career pathways are measured at the beginning and end of each school year	The school's STEM plan is revised, as needed, based upon analysis of this data		Course/program enrollment/participation trends Student Attitudes toward STEM (S-STEM) Survey STEM Semantics Survey Career Interest Questionnaire Test of Science Related Attitudes (TOSRA) Locally created survey Description of revisions based upon data analysis	22, 25
.7 Student/Parent Feedback Data	Does not yet meet minimum indicators for Developing	Student or parent feedback regarding STEM integration is only collected on an informal basis	There is a formal collection of student and parent feedback regarding STEM integration on an annual basis	The school's STEM plan is revised, as needed, based upon analysis of this data		Copy of survey(s) Summary of data Description of revisions based upon data analysis	20, 22
1.8 STEM Instruction	Does not yet meet minimum indicators for Developing	Evaluation indicators have been determined, in the current local evaluation instrument or through modifying the local evaluation instrument, for identifying targeted STEM instructional practices	All evaluators are trained in observing targeted STEM instructional practices, using the local evaluation instrument	Evaluators incorporate feedback on targeted STEM instructional practices in formative and summative evaluations, using the local evaluation instrument		Copy of local evaluation instrument with indicators of alignment with STEM instructional practices Training documentation with agenda Samples of feedback provided to teachers List of identified indicators targeted to STEM instructional practices Roster of attendees	1, 12

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Communication to to lie g., website, communication to tool lie g., website, communication to the lie g., website, communication tool lie g	.9 Instructional Support		of instructional supports, related to STEM instruction, annually: 1) peer observation 2) lesson study 3) critical feedback 4) coaching 5) modeling 6) action research 7) mentoring 8) targeted professional development sessions	instructional supports, related to STEM instruction, bi-annually: 1) peer observation 2) lesson study 3) critical feedback 4) coaching 5) modeling 6) action research 7) mentoring 8) targeted professional development sessions	of instructional supports, related to STEM Instruction, on a quarterly basis: 1) peer observation 2) lesson study 3) critical feedback 4) coaching 5) modeling 6) action research 7) mentoring 8) targeted professional development sessions		roster •Teacher reflections (Journaling) •Summary of survey responses based upon	14, 16, 17, 18,
Illinentary is blass to person of counterparts and search personnel counte	.10 STEM Communications		Communication tools (e.g., website, newsletters, social media, webinars, meetings, etc.) are used two-three times per year to communicate about	Communication tools (e.g., website, newsletters, social media, webinars, meetings, etc.) are used eight-10 times per year to communicate about STEM	Communication tools (e.g., website, newsletters, social media, webinars, meetings, etc.) are used two-three times per month to communicate about		Calendar of communications	
Element Opoints 1 point 2 points 3 points 3 points 5core Choose your own evidence to support 1 controllmin sevidence based of the planned, integrated size of the exposure of of	11 Equity		students participate in integrated STEM instruction/programming Middle School and High School: STEM elective enrollment, including AP/dual credit, is within 50% of school	students participate in integrated STEM instruction/programming Middle School and High School: STEM elective enrollment, including AP/dual credit, is within 25% of school	participate in integrated STEM instruction/programming Middle School and High School: STEM elective enrollment, including AP/dual		Course offerings School schedule STEM enrollments with demographic breakdown (Special Ed Status, Gender, Minorities, etc) Description of how STEM time is "protected" from pull-outs for special programming (Title I, Resource, Remediation, etc)	
Element Developing Approaching Immovating Element 3 points 3 po	ulture Score:					0		
Computer Science O points 1 point 2 points 3 points Score Choose your own evidence to support References		Investigating	Dovaloning		Innovating		(F.	
At least 10 percent of planned, integrated STEM curriculum is evidence-based A computer science implementation plan has been developed that compiles with ic 20-30-5-23 with ic 20-30-5-23 and integrated stem curriculum is evidence-based Does not yet meet minimum indicators for Developing Does n	Element							References
Computer Science Does not yet meet minimum indicators for Developing Does not yet meet minimum i		Does not yet meet minimum	At least 10 percent of planned,	At least 25 percent of planned,			Documentation that curriculum is	1 7 8 9 10
Does not yet meet minimum indicators for Developing and particulum with the planned curriculum upon the appropriate grade band, are integrated into al least 10 percent of the planned curriculum blance of the planned curriculum blan	1 Curriculum Integration						•Unit/lesson plans	
Special education teachers and support services teachers (ENL, Interpreters, etc) for necessary material development and refinement for diverse learners based upon their understanding of students' academic needs Does not yet meet minimum indicators for Developing At least 10 percent of teachers use a variety of assessment data to identify and address gaps in student learning related to STEM instruction At least 25 percent of teachers use a variety of assessment data to identify and address gaps in student learning related to STEM instruction Domain 3: Instruction Special education teachers and support services teachers (ENL, Interpreters, etc) for necessary material development and refinement for diverse learners based upon their understanding of students' academic needs At least 25 percent of teachers use a variety of assessment data to identify and address gaps in student learning related to STEM instruction Tomain 3: Instruction Special education teachers and support services teachers (ENL, Interpreters, etc) for necessary material development and refinement for diverse learners based upon their understanding of students' academic needs At least 50 percent of teachers use a variety of assessment data to identify and address gaps in student learning related to STEM instruction **Samples of assessments** *Samples of feedback provided to students* **Samples of feedback provided to students* **Unity/lesson plans** *Student products** **Student products** **Supplies of feedback provided to students* **Supplies of feedback provided to students* **Samples of feedback provided to students* **Samples of feedback provided to students* **Student products** **Student products** **Student products** **Supplies of feedback provided to students* **Student products** **Student products** **Supplies of feedback provided to students* **Student products** **Sup		indicators for Developing Does not yet meet minimum	A computer science implementation plan has been developed that complies	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for at least 50 percent of students High School: One computer science	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for 100 percent of students High School: Multiple computer science		Unit/lesson plans Student products Implementation plan Agendas from PD/training sessions Roster of participants	14, 18, 22
At least 10 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning related to STEM instruction At least 10 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning related to STEM instruction At least 10 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning related to STEM instruction Tomain 3: Instruction At least 50 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning related to STEM instruction Tomain 3: Instruction Tomain 4: Instruction Tomain 4: Instruction Tomain 5: Instruction Tomain 5: Instruction Tomain 6: Instruction Tomain 6: Instruction Tomain 7: Instruction Tomain 7: Instruction Tomain 8: Instruction To	2 Computer Science	Does not yet meet minimum indicators for Developing	A computer science implementation plan has been developed that complies with IC 20-30-5-23 Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 10 percent of	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for at least 50 percent of students High School: One computer science course is available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 25 percent of the	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for 100 percent of students High School: Multiple computer science courses are available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 50 percent of the		Unit/lesson plans Student products Implementation plan Agendas from PD/training sessions Roster of participants Course list/guide Curriculum summary Unit/lesson plans Student products	14, 18, 22 1, 8, 9, 10 1, 6, 8, 9, 10,
Domain 3: Instruction Investigating Developing Approaching Innovating Flament (Fyamples listed below You may	.2 Computer Science .3 Employability Skills	Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum	A computer science implementation plan has been developed that complies with IC 20-30-5-23 Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 10 percent of the planned curriculum General education teachers create materials for diverse learners based upon their understanding of students'	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for at least 50 percent of students High School: One computer science course is available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 25 percent of the planned curriculum Special education teachers and support services teachers (ENL, Interpreters, etc) provide accommodations and/or adaptations for diverse learners based upon their understanding of students'	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for 100 percent of students High School: Multiple computer science courses are available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 50 percent of the planned curriculum General education teachers are connected with appropriate special education teachers and support services teachers (ENL, Interpreters, etc) for necessary material development and refinement for diverse learners based upon their understanding of students' academic		Unit/lesson plans Student products Implementation plan Agendas from PD/training sessions Roster of participants Course list/guide Curriculum summary Unit/lesson plans Student products Rubrics Samples of provided supports Meeting agenda(s)	14, 18, 22 1, 8, 9, 10 1, 6, 8, 9, 10, 11, 14
Investigating Developing Approaching Innovating Flament (Fyamples listed below You may	.2 Computer Science .3 Employability Skills	Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing	A computer science implementation plan has been developed that complies with IC 20-30-5-23 Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 10 percent of the planned curriculum General education teachers create materials for diverse learners based upon their understanding of students' academic needs At least 10 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for at least 50 percent of students High School: One computer science course is available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 25 percent of the planned curriculum Special education teachers and support services teachers (ENL, Interpreters, etc) provide accommodations and/or adaptations for diverse learners based upon their understanding of students' academic needs At least 25 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for 100 percent of students High School: Multiple computer science courses are available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 50 percent of the planned curriculum General education teachers are connected with appropriate special education teachers and support services teachers (ENL, Interpreters, etc) for necessary material development and refinement for diverse learners based upon their understanding of students' academic needs At least 50 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning		Unit/lesson plans Student products Implementation plan Agendas from PD/training sessions Roster of participants Course list/guide Curriculum summary Unit/lesson plans Student products Rubrics Samples of provided supports Meeting agenda(s) Guidance documents Samples of feedback provided to students Unit/lesson plans Student products Samples of sesessments Samples of sesessments Samples of sevental plans Student products	14, 18, 22 1, 8, 9, 10 1, 6, 8, 9, 10, 11, 14
Investigating Developing Approaching Innovating Element (Examples listed below. You may	2.2 Computer Science 2.3 Employability Skills 2.4 Equity 2.5 Assessments	Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing	A computer science implementation plan has been developed that complies with IC 20-30-5-23 Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 10 percent of the planned curriculum General education teachers create materials for diverse learners based upon their understanding of students' academic needs At least 10 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for at least 50 percent of students High School: One computer science course is available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 25 percent of the planned curriculum Special education teachers and support services teachers (ENL, Interpreters, etc) provide accommodations and/or adaptations for diverse learners based upon their understanding of students' academic needs At least 25 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning related to STEM instruction	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for 100 percent of students High School: Multiple computer science courses are available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 50 percent of the planned curriculum General education teachers are connected with appropriate special education teachers and support services teachers (ENL, Interpreters, etc) for necessary material development and refinement for diverse learners based upon their understanding of students' academic needs At least 50 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning	0	Unit/lesson plans Student products Implementation plan Agendas from PD/training sessions Roster of participants Course list/guide Curriculum summary Unit/lesson plans Student products Rubrics Samples of provided supports Meeting agenda(s) Guidance documents Samples of assessments Samples of feedback provided to students Unit/lesson plans Student products Samples of sasessments Samples of sasessments Samples of feedback provided to students Student products Rubrics	14, 18, 22 1, 8, 9, 10 1, 6, 8, 9, 10, 11, 14
	2.2 Computer Science 2.3 Employability Skills 2.4 Equity 2.5 Assessments	Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing	A computer science implementation plan has been developed that complies with IC 20-30-5-23 Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 10 percent of the planned curriculum General education teachers create materials for diverse learners based upon their understanding of students' academic needs At least 10 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning related to STEM instruction	based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for at least 50 percent of students High School: One computer science course is available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 25 percent of the planned curriculum Special education teachers and support services teachers (ENL, Interpreters, etc) provide accommodations and/or adaptations for diverse learners based upon their understanding of students' academic needs At least 25 percent of teachers use a variety of assessment data to idenitfy and address gaps in student learning related to STEM instruction	Based Elementary and Middle School: Standards-based computer science content is incorporated into the school curriculum for 100 percent of students High School: Multiple computer science courses are available to all students Employability Skills Standards, based upon the appropriate grade band, are integrated into al least 50 percent of the planned curriculum General education teachers are connected with appropriate special education teachers and support services teachers (ENL, Interpreters, etc) for necessary material development and refinement for diverse learners based upon their understanding of students' academic needs At least 50 percent of teachers use a variety of assessment data to identify and address gaps in student learning related to STEM instruction	0	Unit/lesson plans Student products Implementation plan Agendas from PD/training sessions Roster of participants Course list/guide Curriculum summary Unit/lesson plans Student products Rubrics Samples of provided supports Meeting agenda(s) Guidance documents Samples of assessments Samples of feedback provided to students Unit/lesson plans Student products Rubrics	14, 18, 22 1, 8, 9, 10 1, 6, 8, 9, 10, 11, 14

Element	0 points	1 point	2 points	3 points	Score	choose your own evidence to support	Reterences
3.1 STEM Instructional Approach Training	Does not yet meet minimum indicators for Developing	At least 10 percent of teachers have been trained in implementing a STEM instructional approach in the context of solving a real-world problem or challenge	At least 25 percent of teachers have been trained in implementing a STEM instructional approach in the context of solving a real-world problem or challenge	At least 50 percent of teachers have been trained in implementing a STEM instructional approach in the context of solving a real-world problem or challenge		PD/training plan Agenda(s) from PD/training session(s) Roster of participants	8, 9, 10, 14, 17, 20, 21
3.2 STEM Instructional Approach Implementation	Does not yet meet minimum indicators for Developing	At least 10 percent of teachers use a STEM instructional approach in the context of solving a real-world problem or challenge	At least 25 percent of teachers use a STEM instructional approach in the context of solving a real-world problem or challenge	At least 50 percent of teachers use a STEM instructional approach in the context of solving a real-world problem or challenge		•Unit/lesson plans •Student products	1, 6, 7, 8, 9, 10, 14, 17, 22
3.3 Student Instructional Work Groups	Does not yet meet minimum indicators for Developing	At least two times per month and in at least 50 percent of classes, students work in groups as follows: 1) Students collaborate with peers based upon project/intended outcomes 2) Each group member has at least one assigned role that is critical to successful project/goal completion 3) Accountability is measured and recorded for each individual as well as the entire group	At least one time per week and in at least 50 percent of classes, students work in groups as follows: 1) Students collaborate with peers based upon project/intended outcomes 2) Each group member has at least one assigned role that is critical to successful project/goal completion 3) Accountability is measured and recorded for each individual as well as the entire group	At least two times per week and in at least 50 percent of classes, students work in groups as follows: 1) Students collaborate with peers based upon project/intended outcomes 2) Each group member has at least one assigned role that is critical to successful project/goal completion 3) Accountability is measured and recorded for each individual as well as the entire group		Group assignment processes Defined roles/responsibilities plans Accountability plans Unit/lesson plans Rubrics	8, 9, 10, 13, 14, 22
3.4 Technology in Instruction	Does not yet meet minimum indicators for Developing	Students use a variety of technologies to enhance their learning in investigations and problem solving e. g., data collection/analysis, design, creation, virtual simulations, research and communication at least 10 percent of the time	Students use a variety of technologies to enhance their learning in investigations and problem solving e.g., data collection/analysis, design, creation, virtual simulations, research and communication at least 25 percent of the time	Students use a variety of technologies to enhance their learning in investigations and problem solving e. g., data collection/analysis, design, creation, virtual simulations, research and communication at least 50 percent of the time		•Unit/lesson plans •Student products	1, 8, 9, 10, 14, 17, 22
3.5 STEM Integration	Does not yet meet minimum indicators for Developing	At least 10 percent of teachers are implementing the planned integrated STEM learning opportunities on a quarterly basis (see 1.3)	At least 25 percent of teachers are implementing the planned integrated STEM learning opportunities on a quarterly basis (see 1.3)	At least 50 percent of teachers are implementing the planned integrated STEM learning opportunities on a quarterly basis (see 1.3)		•Unit/lesson plans •Student products	1, 7, 8, 9, 10, 11,17
Instruction Score:					0		
			Domain 4: Partnerships	1		Erracineca syr	
Element	Investigating	Developing 1 point	Approaching	Innovating	Element Score	(Examples listed below. You may choose your own evidence to support	References
Element	Investigating O points Does not yet meet minimum indicators for Developing	Developing 1 point At least one community partner assists with informing the school's STEM plan	Approaching 2 points At least two community partners, from different sectors, assist with informing	Innovating 3 points At least three community partners assist with informing the school's STEM plan	Element Score	choose your own evidence to support •Meeting minutes •Agenda(s)	References 1, 4, 11, 22
4.1 Culture	0 points Does not yet meet minimum	At least one community partner assists with informing the school's STEM plan Elementary and Middle School: At least 10 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 10 percent of students have direct experiences with STEM professionals and/or professional	Approaching 2 points At least two community partners, from different sectors, assist with informing the school's STEM plan Elementary and Middle School: At least 25 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 25 percent of students have direct experiences with STEM professionals and/or professional	At least three community partners assist with informing the school's STEM plan Elementary and Middle School: At least 50 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 50 percent of students have direct experiences with STEM professionals and/or professional		•Meeting minutes	
	O points Does not yet meet minimum indicators for Developing Does not yet meet minimum	1 point At least one community partner assists with informing the school's STEM plan Elementary and Middle School: At least 10 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 10 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly One to two established community partners are actively engaged in STEM curriculum and/or activities	Approaching 2 points At least two community partners, from different sectors, assist with informing the school's STEM plan Elementary and Middle School: At least 25 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 25 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Three to four established community partners are actively engaged in STEM curriculum and/or activities	At least three community partners assist with informing the school's STEM plan Elementary and Middle School: At least 50 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 50 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Five or more established community partners are actively engaged in STEM curriculum and/or activities		choose your own evidence to support •Meeting minutes •Agenda(s) •Roster of participants •Curriculum summary •Unit/lesson plans •Student products	1, 4, 11, 22
4.1 Culture 4.2 STEM Career Exploration	O points Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing	I point At least one community partner assists with informing the school's STEM plan Elementary and Middle School: At least 10 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 10 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly One to two established community partners are actively engaged in STEM	Approaching 2 points At least two community partners, from different sectors, assist with informing the school's STEM plan Elementary and Middle School: At least 25 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 25 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Three to four established community partners are actively engaged in STEM	At least three community partners assist with informing the school's STEM plan Elementary and Middle School: At least 50 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 50 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Five or more established community partners are actively engaged in STEM		choose your own evidence to support •Meeting minutes •Agenda(s) •Roster of participants •Curriculum summary •Unit/lesson plans •Student products •Documentation of participation •List of partners •Samples of participation/pupport provided by each partner	1, 4, 11, 22 1, 4, 8, 9, 10, 11, 22
4.1 Culture 4.2 STEM Career Exploration 4.3 Community Engagement	O points Does not yet meet minimum indicators for Developing	I point At least one community partner assists with informing the school's STEM plan Elementary and Middle School: At least 10 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 10 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly One to two established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 10 percent of	Approaching 2 points At least two community partners, from different sectors, assist with informing the school's STEM plan Elementary and Middle School: At least 25 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 25 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Three to four established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 25 percent of	At least three community partners assist with informing the school's STEM plan Elementary and Middle School: At least 50 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 50 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Five or more established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 50 percent of		choose your own evidence to support *Meeting minutes *Agenda(s) *Roster of participants *Curriculum summary *Unit/lesson plans *Student products *Documentation of participation *List of partners *Samples of participation/pupport provided by each partner (may include virtual participation/supports) *Summary of opportunities *Calendar of events	1, 4, 11, 22 1, 4, 8, 9, 10, 11, 22 1, 4, 8, 9, 10, 11, 14, 21, 22
4.1 Culture 4.2 STEM Career Exploration 4.3 Community Engagement 4.4 Extended Learning	O points Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing	I point At least one community partner assists with informing the school's STEM plan Elementary and Middle School: At least 10 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 10 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly One to two established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 10 percent of students in an on-going basis Provides, at least one time per year, opportunities to inspire and inform under-represented students about	Approaching 2 points At least two community partners, from different sectors, assist with informing the school's STEM plan Elementary and Middle School: At least 25 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 25 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Three to four established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 25 percent of students in an on-going basis Provides, at least two times per year, opportunities to inspire and inform under-represented students about	At least three community partners assist with informing the school's STEM plan Elementary and Middle School: At least 50 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 50 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Five or more established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 50 percent of students in an on-going basis Provides, at least three times per year, opportunities to inspire and inform under-represented students about		choose your own evidence to support *Meeting minutes *Agenda(s) *Roster of participants *Curriculum summary *Unit/lesson plans *Student products *Documentation of participation *List of partners *Samples of participation/pupport provided by each partner (may include virtual participation/supports) *Summary of opportunities *Calendar of events *Transportation options *Equity plan *Summary of opportunities	1, 4, 11, 22 1, 4, 8, 9, 10, 11, 22 1, 4, 8, 9, 10, 11, 14, 21, 22 1, 11, 17, 18
4.1 Culture 4.2 STEM Career Exploration 4.3 Community Engagement 4.4 Extended Learning	O points Does not yet meet minimum indicators for Developing Does not yet meet minimum indicators for Developing	I point At least one community partner assists with informing the school's STEM plan Elementary and Middle School: At least 10 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 10 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly One to two established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 10 percent of students in an on-going basis Provides, at least one time per year, opportunities to inspire and inform under-represented students about	Approaching 2 points At least two community partners, from different sectors, assist with informing the school's STEM plan Elementary and Middle School: At least 25 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 25 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Three to four established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 25 percent of students in an on-going basis Provides, at least two times per year, opportunities to inspire and inform under-represented students about	At least three community partners assist with informing the school's STEM plan Elementary and Middle School: At least 50 percent of STEM units have career exploration/information as a part of the curriculum High School: At least 50 percent of students have direct experiences with STEM professionals and/or professional STEM work environments quarterly Five or more established community partners are actively engaged in STEM curriculum and/or activities STEM activities such as robotics and engineering clubs, internships, and apprenticeships are available and accessible by at least 50 percent of students in an on-going basis Provides, at least three times per year, opportunities to inspire and inform under-represented students about		choose your own evidence to support *Meeting minutes *Agenda(s) *Roster of participants *Curriculum summary *Unit/lesson plans *Student products *Documentation of participation *List of partners *Samples of participation/pupport provided by each partner (may include virtual participation/supports) *Summary of opportunities *Calendar of events *Transportation options *Equity plan *Summary of opportunities	1, 4, 11, 22 1, 4, 8, 9, 10, 11, 22 1, 4, 8, 9, 10, 11, 14, 21, 22 1, 11, 17, 18

	Voy Torminalas:					
Term	Key Terminology Definition	Resources				
reim	Computer science is defined by the	nesources				
Computer Science	computer science is defined by the content found in Indiana's Computer Science Standards	IC 20-30-5-23				
Culture	The way teachers and other staff members work together and the set of beliefs, values, and assumptions they share.	<u>WestED</u>				
Curriculum	The lessons and academic content taught in a school or in a specific course or program.	IDOE STEM				
Curriculum Integration	The materials and pedagogical strategies used by multidisciplinary teams of teachers collaborate to plan and present related lessons that center around a central theme, issue or problem.	ConnectEd				
Employability Skills	A group of essential abilities that involve the development of a knowledge base, expertise level and mindset that is increasingly necessary for success in the modern workplace. IC 20-30-5-14 states that, not later than July 1, 2019, each school within a school corporation shall include interdisciplinary employability skills	IDOE Resources				
	standards established by the department, in conjunction with the department of workforce development, and approved by the state board in the school's curriculum.	IC 20-30-5-23				
Inquiry-Based Instruction	A pedagogy that can be used to deliver lessons on a daily basis in the primary disciplines and beyond. It begins with the teacher presenting the students with a question to explore or having students develop their own questions. As the students investigate the question, they give priority to evidence that is gathered through research and exploring and formulate explanations to describe their findings based on evidence or data collected. Students connect explanations to their knowledge and current understandings in the discipline and then communicate and justify their explanations.	American Association for the Advancement of Science Resource				
Problem-Based and/or Project-Based Curriculum	Generally spans one to several weeks of instruction that should be delivered in an integrated manner including science, mathematics, and other disciplines to show authentic connections.	Coming Fall 2019				
	A pedagogy that anchors the teaching of disciplinary content in the context of solving a real-world problem or challenge.	Ford NGL				
Problem-Based and/or Project-Based Learning (PBL)		PBLWorks				
		Magnify Learning	1			
Community Partners	Business, higher-education, community organizations	Georgia STEM/STEAM Model				

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STEM Education	STEM education is the integration of the science, technology, engineering and math disciplines with the goal of deploying problem/project/inquiry-based approaches to teaching and learning in the classroom, while developing critical thinking skills and	Six-Year Indiana STEM Strategic Plan			
	creating pathways to postsecondary and career opportunities.				
	The integration of the science,				
	technology, engineering and math				
	disciplines with the goal of deploying	Six-Year Indiana STEM Strategic Plan			
	problem/project/inquiry-based				
STEM Instruction	approaches to teaching and learning in the classroom, while developing				
	critical thinking skills and creating	NRC Resource			
	pathways to postsecondary readiness	NC RESOURCE			
	and career opportunities.				
STEM Instructional Approach	Accepted STEM instructional				
	approaches referenced in the Six-Year				
	Indiana STEM Strategic Plan are: -Problem-based approaches	Six-Year Indiana STEM Strategic Plan			
	-Project-based approaches				
	-Inquiry-based approaches				
Under-Represented Students	Females, minorities, and students with disabilities	NSF Report			